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U.S. Appln. No. 10/716,594

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Gert Johannes Brits  
Title: Plectranthus Plant Named 'K011101'  
(as amended)  
Appl. No.: 10/716,594  
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Examiner: J. Hwu  
Art Unit: 1661

**SUBMISSION OF SUBSTITUTE SPECIFICATION  
UNDER 37 CFR 1.125 and MPEP § 608.01(q)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant hereby submits a Substitute Specification in the above-captioned application. Pursuant to 37 CFR 1.125 and MPEP § 608.01(q), Applicant certifies that the Substitute Specification contains no new matter.

Respectfully submitted,

Date June 21, 2004

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## SUBSTITUTE SPECIFICATION

### PLECTRANTHUS PLANT NAMED 'K011101'

Latin name of genus and species of the plant claimed:

*Plectranthus hybrida*

5 Variety denomination:

K011101

### BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Plectranthus* plant, botanically known as *Plectranthus hybrida* (Family Lamiaceae), hereinafter referred to  
10 by the name 'K011101'.

The new *Plectranthus*, 'K011101', is a new and distinct mutation (sport), detected in a production batch of *Plectranthus hybrida*, 'P000306' (U.S. Plant Patent application serial no. 10/716,659) by the Inventor, Gert Johannes Brits, in Kortegaard, Nørre Søby, Denmark. The objective of the breeding program in which the mutation  
15 was detected is to improve upon the *Plectranthus* varieties currently available, such as the cultivar 'Edelbau' (unpatented) by developing more compact growth habit, larger flowers and improved vigor. The new cultivar has been produced only by vegetative propagation (cuttings). The Inventor selected the new *Plectranthus* cultivar on the basis of its compact growth habit, larger flowers and increased vigor.

20 Asexual reproduction of the new cultivar by terminal cuttings taken and propagated, has shown that each of the progenies exhibit characteristics identical to the

original plant. These characteristics have been shown to come true to form through many generations of asexual propagation under commercial production conditions in Nr. Lyndelse, Fyn, Denmark. The present invention has been tested under lighted greenhouse conditions and for keeping quality in a consumer environment, but may  
5 differ in various aspects if grown under different conditions.

## SUMMARY OF THE INVENTION

Plants of the cultivar 'K011101' have not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, light intensity, day length, and fertility level without,  
10 however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'K011101'. These characteristics in combination distinguish 'K011101' as a new and distinct cultivar:

1. Large dark pink flowers;  
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2. Compact and freely branching plant habit;
3. Shorter production time, by one week as compared to similar varieties; and
- 20 4. Dense, colorful foliage.

Side-by-side comparisons between the instant plant and the "mother" cultivar 'P000306' were conducted by the Inventor. Plants of 'K011101' differ from 'P000306' in the following characteristics:

1. Plants of 'K011101' have longer, dark pink flowers than plants of 'P000306'.
2. Plants of 'K011101' have better branching growth habit than plants of 'P000306'.

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#### BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the overall appearance of the new cultivar, showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description, which more accurately  
10 describe the actual colors of 'K011101'.

The first photographic drawing shows a side perspective view of a typical flowering plant of 'K011101' as grown in 12 cm pots. The second photographic drawing shows a close-up view of typical flowering racemes of 'K011101'.

#### DETAILED BOTANICAL DESCRIPTION

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In the following description, color references are made to The Royal Horticultural Society (RHS) Colour Chart, 4<sup>th</sup> edition. Plants were grown under greenhouse conditions. The plants described were between 12 and 15 weeks old after cutting, as grown in 12 cm pots.

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Parentage: Sport mutation discovered in a production batch of *Plectranthus hybrida*, 'P000306', a hybrid backcross between proprietary selection of *Plectranthus saccatus* named 'F1' (unpatented) and unnamed *Plectranthus hilliardiae* (unpatented).

Propagation:

Type cutting. Terminal vegetative cuttings.

Plant description:

Form: Perennial, herbaceous plant with upright, branched plant form.

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Crop time: Flowering induced by short day treatment in 12 cm pots for 4 weeks under greenhouse conditions.

Plant height (soil level to top of plant plane): About 35 cm.

Plant spread: About 35 cm

10 Stem: Upright, stiff, square, branching from base, RHS 136B (dark green)

Vigor: Vigorous growth rate

Foliage description: Leaves single, ovate, serrate. Arrangement: opposite, decussate.

Length: 8 cm. Width: 6 cm. Apex: Acuminate. Base: Cuneate. Texture: adaxial: rough  
15 (hispid), shiny; abaxial: smooth, velvety. Venation: prominent, dark purple-brown, N79

B. Color, ventral side: Young foliage, upper and lower surfaces: RHS 136 A, green.

Mature foliage, upper and lower surfaces: RHS 136 A. Color, dorsal side: Young foliage, RHS 139 B. Mature foliage: RHS 138 B.

Petiole: 3 cm in length, 3 mm diameter; hispid texture, N77A (purple)

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Flower description:

Flower arrangement: Raceme of panicles.

Flower shape: Irregular labiate, flat tubular with 4 lips of different size and shape.

Flower longevity on the plant: Longevity of individual flowers is highly dependent on  
25 temperature and light conditions; single flowers last 4 to 6 days under greenhouse

conditions with full sunlight and temperatures not exceeding 20 C; 'K011101' may retain flowers up to 4 weeks with sufficient sunlight and temperatures not exceeding 20 C.

- 5 Number of flowers per inflorescence: 25-30; 80-90 per stem; up to 200 per plant; individual flower 25 mm vertical diameter, 9 mm horizontal diameter; 32 mm in flower depth (height).

Floral tube: Length 4 mm, width 2 mm.

- 10 Inflorescence size: Apical: 10 cm in length; Basal: 6 cm in length; Diameter: 8 cm.

Buds: Length: Up to 20 mm before antithesis; height: 5 mm; width: 1 mm; tubular with angular "head", RHS 59 A (red purple); base RHS 63 B, pink, to white, RHS 155B.

- 15 Petals: 5 fused to basal, flat tubular corolla. Lips spotted, velvety texture. Top lip (2 fused) to inverted cordate form, revolute upright, 12 mm. Bottom lip involute, almost cup-shaped, 7 mm. Wing lips small, rounded, 4 mm. Color: ventral side of lips: light purple, N82D; dark purple spots: N79A; throat: violet, RHS 84 D; dorsal side: light red-purple, RHS 63 C.

- 20 Sepals: Length 2 mm, width 1 mm; matte texture, puberulent

Calyx: 5 pointed lobes fused at base; veins: dark purple, N79A; ground tissue: green, RHS 136 C.

Pedicel: 6 mm length, 1 mm diameter, color RHS N79A

Peduncle: 6 mm length, 3 mm diameter, color N79A

Reproductive Organs:

Stamen: 4 monoadelphous, lower part fused to corolla tube.

Anther: Kidney-shaped, .25 mm in length; purple, N79B

Filament: RHS 69D, light red-purple; 7 mm in length

5 Pollen: Plenty produced, RHS N79B

Pistil: 1, lower part fused to corolla tube; free part 5 mm, curling upward with cleft stigma, purple, N79B

Ovary: N144A, yellow-green

Seed: 5 seeds per capsule; 1 mm length, 1 mm width. Immature seeds: RHS 150 B  
10 (light yellow-green)

Fragrance: None

Weather tolerance: Plants of the new *Plectranthus* have exhibited good tolerance to drought, rain and wind, low temperature resistant to 5 C.